

Howard County's Land Use Projection System

BALTIMORE METROPOLITAN COUNCIL COOPERATIVE FORECASTING GROUP

AUGUST 26, 2020



- Have been using for many years for purposes of development monitoring (APFO)
- We recently overhauled & modernized
- Real time tracking updated weekly
- Detailed at the parcel and lot level



- Used for land use reporting and projections schools, water/sewer, parks, solid waste, police, fire, transportation purposes, and others.
- Projections updated at the end of each calendar year using Sept. 30 as cutoff (school year official enrollments)



Undeveloped Land

- 1-0 Undeveloped Residential
- 2-0 Undeveloped Commercial
- 3-0 Undeveloped Industrial
- 4-0 Undeveloped Institutional/Government
- 1- Residential
 - 1-1 Low-Density Residential
 - Single-Family Detached homes and duplexes
 - 1-2 Medium-Density Residential
 - Single-Family Attached and mobile homes
 - 1-3 High-Density Residential

Apartments

1-4 Age-Restricted Residential



- 2- Commercial
 - 2-1 Retail
 - 2-2 Office
 - 2-3 Service
 - 2-4 Hotel
 - 2-5 Mixed Commercial
- 3-Industrial
 - 3-1 Light Industrial
 - 3-2 Heavy Industrial
 - 3-3 Warehouse

- 4- Government and Institutional
 - 4-1 Public Schools
 - 4-2 Private School & Daycare
 - 4-3 College, Professional, or Vocational School
 - 4-4 Religious
 - 4-5 Religious with School
 - 4-6 Cemetery
 - 4-7 Local Government
 - 4-8 State Government
 - 4-9 Federal Government
 - 4-10 Community/Recreational
 - 4-11 Hospital and Medical
 - 4-12 Nursing Homes (inc. Group Homes)



- 5- ROW and Utilities
 - 5-1 Roadway ROW & Parking
 - 5-2 Railway
 - 5-3 Airfield
 - 5-4 Communications
 - 5-5 Utility Lines and Stations
- 6- Parks and Open Space
 - 6-1 State Park
 - 6-2 County Park and Open Space
 - 6-3 WSSC Open Space
 - 6-4 Columbia Open Space



7- Mixed-Use

7-1 Residential/Commercial

Ex. Apartments above ground-level retail

7-2 Commercial/Industrial

Ex. Industrial parks with mixed service, office, and light industrial suites sharing a single parcel

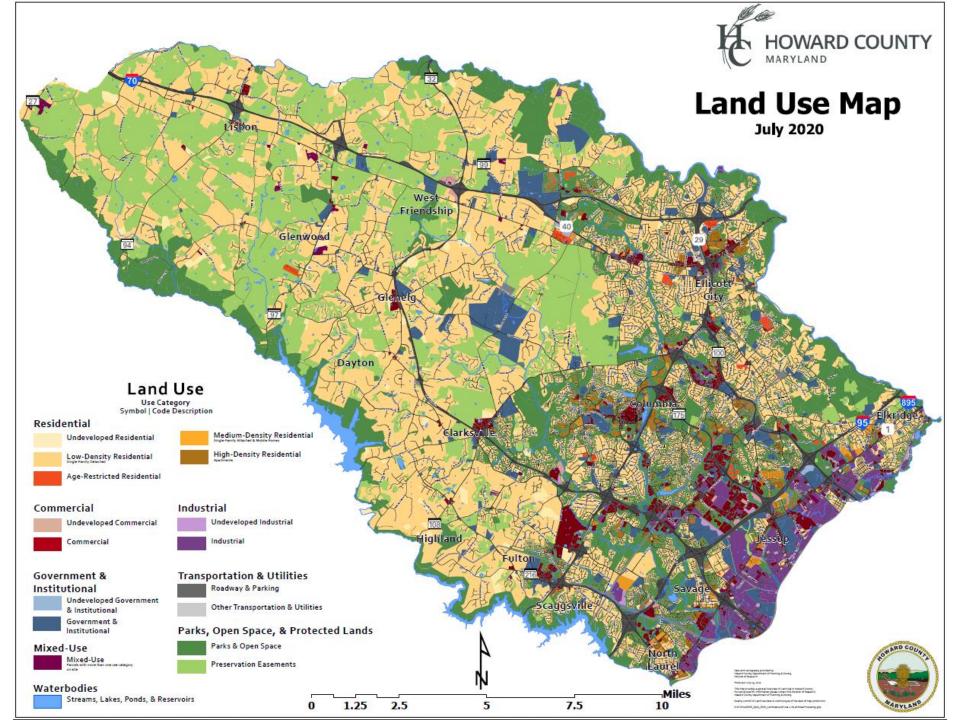
7-3 Institutional/Commercial

Ex. Mixed office use types, with government and private office suites on a single parcel

7-4 Institutional/Residential

Ex. The New Cultural Center planned for Downtown Columbia; apartments above theatre, gallery, and community space

99 Framents, Unknown, Etc.





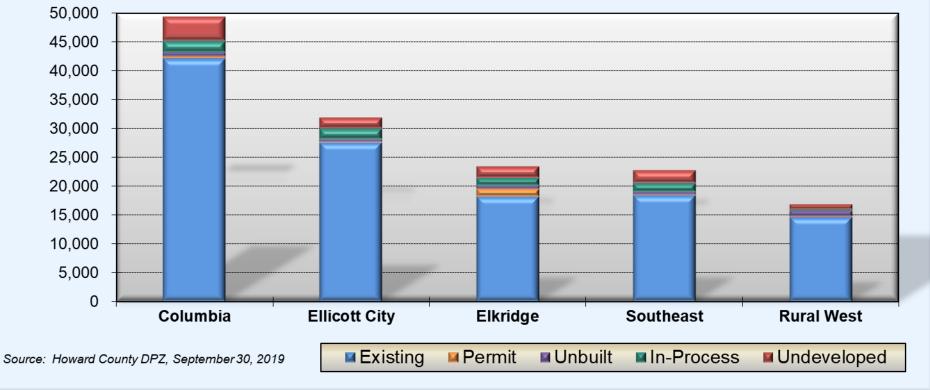
<u>Residential</u> Stages for Projections

- <u>Existing</u> unit current year
- Building <u>permit</u> issued -1^{st} projection year
- <u>Recorded</u> lot 1^{st} and 2^{nd} projection years
- <u>In process</u> plan 1st through 4th projection years, depending on plan stage & can be phased plan
- <u>Undeveloped</u> land –5th projection year and later

		EAIGUI	g Units as o SFD	SFA	APT	MH	SR-SFD	SR-SFA	SR-APT	Total	
Colun	nbia	Existing	16,126	10,855	14,155	0	22	444	461	42,063	
cordin		Permit	16	0	382	0	0	0	0	398	
		Unbuilt	135	1	436	0	0	0	90	662	
		In-Process	136	114	1,722	0	0	24	0	1,996	
		Undeveloped	262	125	3,778	0	0	37	18	4,220	
		Total	16,675	11,095	20,473	0	22	505	569	49,339	
		lotal	10,075	11,055	20,475	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	505	505	43,333	
			SFD	SFA	APT	мн	SR-SFD	SR-SFA	SF-APT	Total	
Ellico	ott City	Existing	15,415	3,716	5,378	0	318	875	1,805	27,507	
	•	Permit	61	31	0	0	1	4	16	113	
		Unbuilt	315	95	4	0	0	0	107	521	
		In-Process	351	653	799	0	0	0	0	1,803	
		Undeveloped	900	58	326	0	0	144	464	1,892	
		Total	17,042	4,553	6,507	0	319	1,023	2,392	31,836	
			SFD	SFA	ΑΡΤ	мн	SR-SFD	SR-SFA	SF-APT	Total	
Elkrid	lae	Existing	7,485	5,158	4,189	859	18	87	408	18,204	
	0	Permit	55	128	1,102	1	0	0	0	1,286	
		Unbuilt	285	161	137	0	0	0	0	583	
		In-Process	95	380	876	0	0	0	0	1,351	
		Undeveloped	734	340	823	0	0	30	69	1,996	
		Total	8,654	6,167	7,127	860	18	117	477	23,420	
			SFD	SFA	ΑΡΤ	мн	SR-SFD	SR-SFA	SF-APT	Total	
South	neast	Existing	8,046	5,994	3,541	427	32	132	300	18,472	
		Permit	59	6	0	0	0	1	0	66	
		Unbuilt	349	47	0	0	0	0	0	396	
		In-Process	293	486	820	0	0	0	0	1,599	
		Undeveloped	1,033	655	521	0	0	0	0	2,209	
		Total	9,780	7,188	4,882	427	32	133	300	22,742	
			SFD	SFA	ΑΡΤ	мн	SR-SFD	SR-SFA	SF-APT	Total	
Rural	West	Existing	14,513	0	6	2	25	68	0	14,614	
		Permit	97	0	0	0	0	0	0	97	
		Unbuilt	1,071	0	0	0	0	0	0	1,071	
		In-Process	168	0	0	0	0	0	0	168	
		Undeveloped	896	0	0	0	0	0	0	896	
		Total	16,745	0	6	2	25	68	0	16,846	
			SFD	SFA	APT	мн	SR-SFD	SR-SFA	SF-APT	Total	
Couty	/wide	Existing	61,585	25,723	27,269	1,288	415	1,606	2,974	120,860	
- July		Permit	288	165	1,484	1,200	1	5	16	1,960	8
		Unbuilt	2,155	304	577	0	0	0	197	3,233	
		In-Process	1,043	1,633	4,217	0	0	24	0	6,917	2 4
		Undeveloped	3,825	1,178	5,448	0	0	211	551	11,213	7
			2,020	.,	2, 110	5	5	- · ·	001	,	

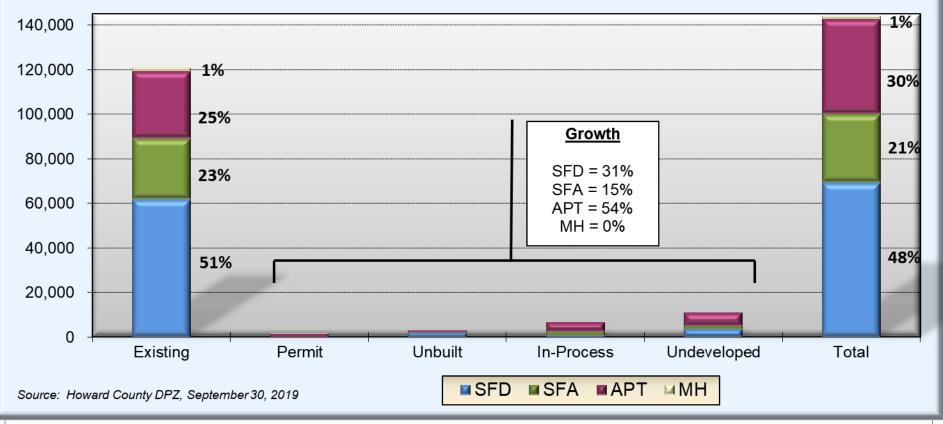


Residential Units by Development Stage in Howard County September 30, 2019





Residential Units by Development Stage in Howard County September 30, 2019





Non-Residential Stages for Projections

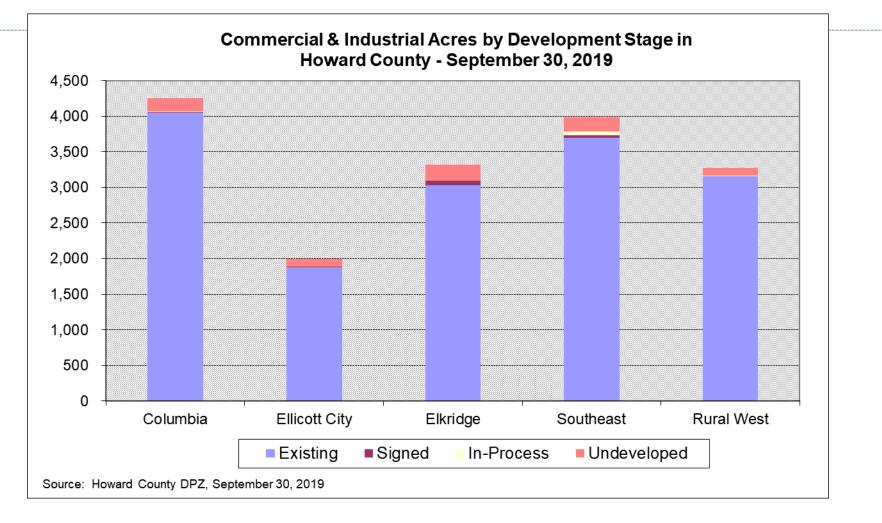
- <u>Existing</u> current year
- <u>Signed SDP</u> 1st projection year
- <u>In process</u> plan 2nd through 4th projection years, depending on plan stage & can be phased plan
- <u>Undeveloped</u> land –5th projection year and later

Commercial, Industrial, Govt. and Institutional Acreage Distribution by Stage and Type - September 30, 2019



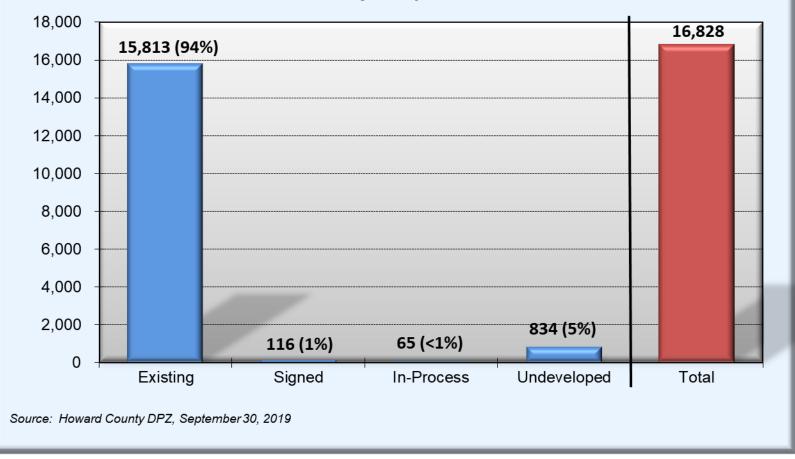
		Comm	Indust	Gov & Inst.	Total	Percent
Columbia	Existing	2,157	360	1,531	4,048	95.1%
	Signed	2	8	0	10	0.2%
	In-Process	2	3	0	5	0.1%
	Undeveloped	129	65	0	194	4.6%
	Total	2,290	436	1,531	4,257	100.0%
		Comm	Indust	Gov & Inst.	Total	Percent
Ellicott City	Existing	615	42	1,221	1,878	94.0%
	Signed	9	0	, 0	9	0.5%
	In-Process	0	0	0	0	0.0%
	Undeveloped	57	0	53	110	5.5%
	Total	681	42	1,274	1,997	100.0%
		Comm	Indust	Gov & Inst.	Total	Percent
Elkridge	Existing	677	1,140	1,212	3,029	91.3%
	Signed	22	3	39	64	1.9%
	In-Process	4	0	0	4	0.1%
	Undeveloped	33	188	0	221	6.7%
	Total	736	1,331	1,251	3,318	100.0%
		Comm	Indust	Gov & Inst.	Total	Percent
Southeast	Existing	1,124	1,681	894	3,699	92.8%
	Signed	22	11	0	33	0.8%
	In-Process	45	5	0	50	1.3%
	Undeveloped	78	126	0	204	5.1%
	Total	1,269	1,823	894	3,986	100.0%
		Comm	Indust	Gov & Inst.	Total	Percent
Rural West	Existing	400	19	2,740	3,159	96.6%
	Signed	0	0	0	0	0.0%
	In-Process	6	0	0	6	0.2%
	Undeveloped	105	0	0	105	3.2%
	Total	511	19	2,740	3,270	100.0%
		Comm	Indust	Gov & Inst.	Total	Total
Coutywide	Existing	4,973	3,242	7,598	15,813	94.0%
	Signed	55	22	39	116	0.7%
	In-Process	57	8	0	65	0.4%
	Undeveloped	402	379	53	834	5.0%
	Total	5,487	3,651	7,690	16,828	100.0%







Commercial, Industrial, Gov. & Inst. Acres by Development Stage in Howard County - September 30, 2019







- Use CommunityViz for updated capacity analysis <u>including resubdivision</u> <u>potential on existing unit lots/parcels.</u>
- Develop CommunityViz projection model:
 1. for purposes of HoCo By Design scenarios.
 2. for 2020 base year projections for school system (and other agencies).
- For 2020 base year projections, will need to be "status quo" projections based on current zoning and capacity given HoCo By Design will not be adopted (although OK to use updated capacity).
- Projection system should include the <u>ability for manual changes</u> given project-specific knowledge, etc.
- Projection system should include outputs specific for school system model inputs and other DPZ reporting requirements.
- 2020 projections (using Sept 30, 2020 as the snapshot time) provided to schools in December.



Next Steps

- Non-residential projections (land use and jobs) was last done in 2017 based on 2015 jobs base (there's always a lag in getting jobs data).
- Will need to update non-res projections also for HoCo By Design this fall for scenarios.
- Updated non-residential projections also required using 2020 as the base year for Baltimore Metropolitan Council cooperative forecasting effort due at the end of 2021.
- We receive detailed job data by location from MD DLLR through BMC after signing non-disclosure agreement. 2020 jobs data is to be forthcoming.